Solving Quadratics Review

Use the stated method to solve each quadratic equation.

Solve using the square root method.

1. $8x^2 - 14 = 0$

2. $(x + 5)^2 = 64$

Solve by graphing.

3. $y = -(x - 3)^2 + 1$

4. $y = 2(x + 1)^2 - 8$

Solve by factoring.

5. $27x^2 - 3 = 0$

6. $2x^2 = 7x + 9$

Solve by Completing the Square.

7. $2x^2 + 12x - 10 = 0$

8. $x^2 + 3x + 1 = 0$

Solve using the Quadratic Formula.

9. $2x^2 - 9x + 6 = 0$

10. $-x^2 + 2x - 3 = 0$

Answer Key:

1. $x = \pm \frac{\sqrt{7}}{2}$ 2. $x = -13, 3$ 3. $x = 2, 4$ 4. $x = -3, 1$

5. $x = \pm \frac{1}{3}$ 6. $x = -1, \frac{9}{2}$ 7. $x = -3 \pm \sqrt{14}$ 8. $x = \frac{-3 \pm \sqrt{5}}{2}$

9. $x = \frac{9 \pm \sqrt{33}}{4}$ 10. $x = 1 \pm i\sqrt{2}$